

EXHIBIT D

Patent Claims Analysis
of
US10367912: "System and method for automating the management, routing, and control of multiple devices and inter-device connections"
against
Google Home

US10367912B2

United States

Inventor [Gordon Saint Clair](#)

Current Assignee CLOUD SYSTEMS HOLDCO IP LLC

Worldwide applications

2008 [US](#) 2014 [US](#) 2016 [US](#) 2018 [US](#) 2019 [US](#)

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| Claims priority from a provisional application 60/746,290 | 05/03/2006 |
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| Total patentTerm Adjustments |
| 0 |

CLAIMS

10. A method of controlling an environment, the method comprising:

configuring a server to host a database that includes information describing a set of static connections and information describing a set of adaptable nodes and that is further configured to run a scheduling service;





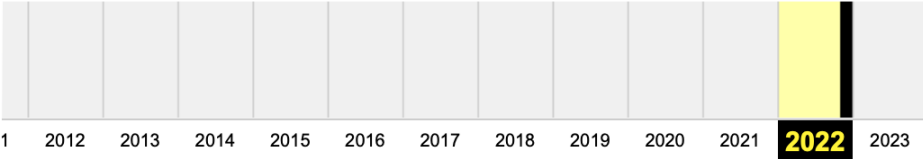
configuring a control client to control at least one output device within the environment and to communicate with the scheduling service;

configuring a control client web application including one or more components to render a user interface on the control client, wherein one or more standard widgets of the user interface provide one or more standard control options based at least in part on the at least one output device and one or more specialized widgets provide one or more customizable control options based at least in part on the at least one output device;

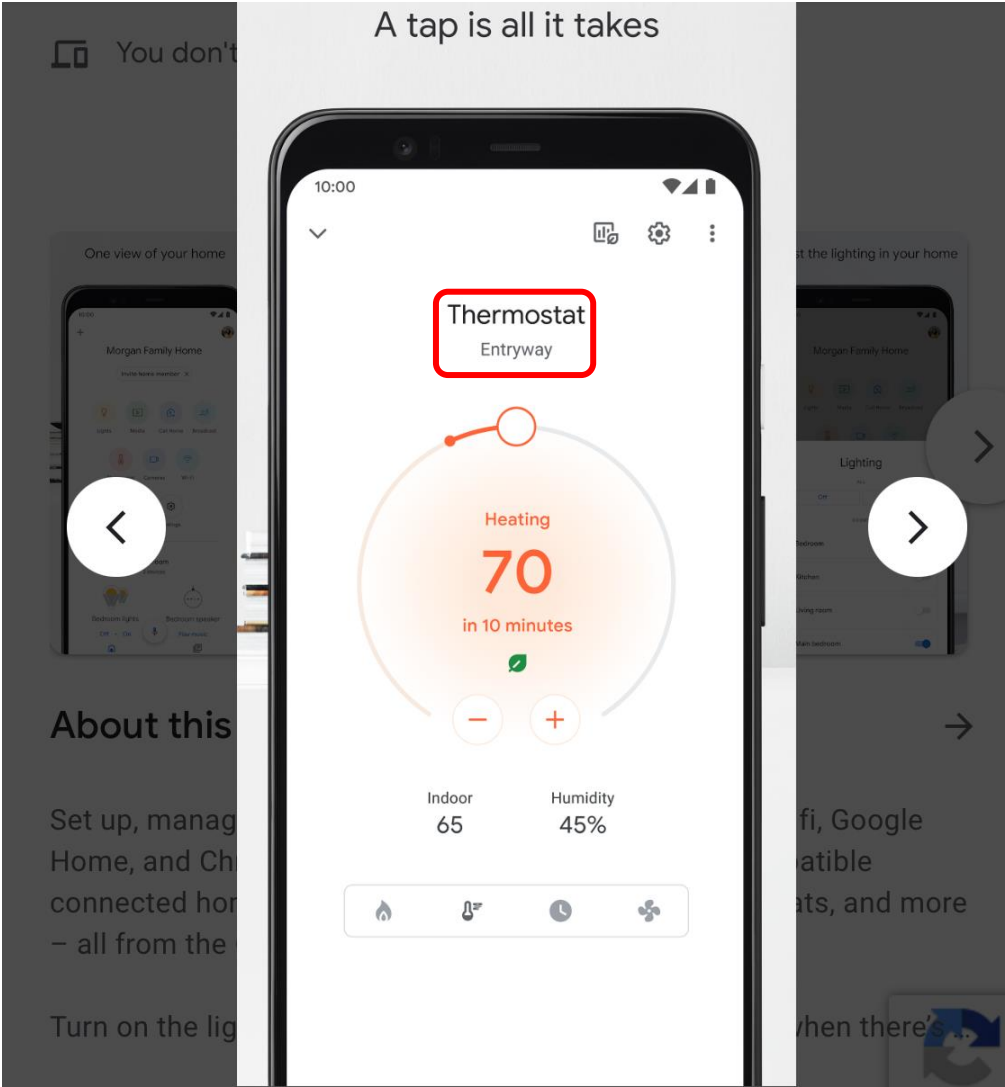
configuring a control switch to communicate with the control client;

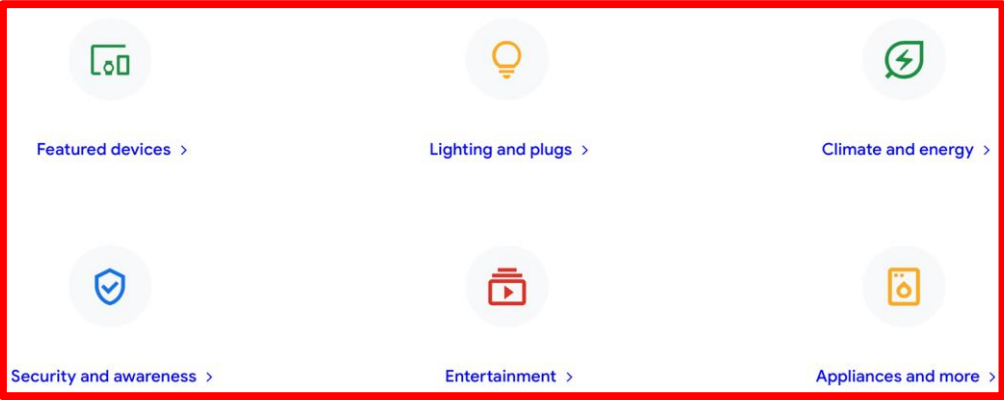
configuring an output device configurator that is to send a request to access the output device to the scheduling service and through the control switch, to send configuration information to the output device, and to send control information to the output device; and

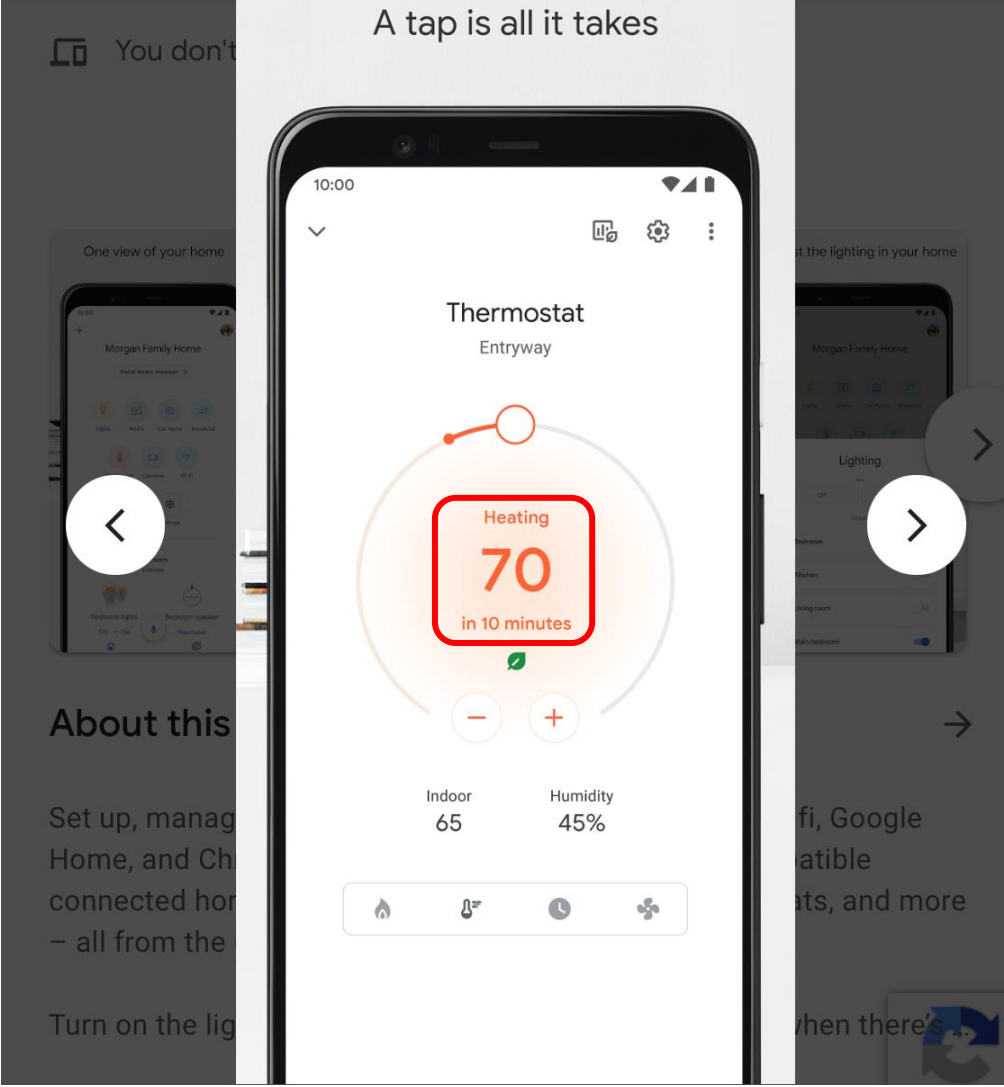
configuring the scheduling service to manage availability of the output device for access.

| Row | Claim Element | Contention |
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| 10.0 | 10. A method of controlling an environment, the method comprising: | <p><i>Google Home has a method of controlling an environment.</i></p> <p>Get started with Cloud-to-cloud </p> <p>On this page</p> <ul style="list-style-type: none"> Why build How to build Definitions  <p>The Google Smart Home platform lets users control your commercially available connected devices through the Google Home app (GHA)  and Google Assistant , which is available on more than 1 billion devices like smart speakers, phones, cars, TVs, headphones, watches, and more.</p> <p><https://developers.home.google.com/cloud-to-cloud/get-started> 2022-11-10 Saved 4 times between November 26, 2022 and December 18, 2022.</p>  <p><i>Google introduces a smart home that lets user control their connected devices through the google home app and the google assistant. With the Google Home app, we can control and manage compatible lights, cameras, TVs, and more – all from one place. Google cloud is acting as server to manage the scenario to control the appliances.</i></p> |
| 10.1 | configuring a server to host a database that | <p><i>Google Home describes "Developer Cloud" and "Control and schedule multiple devices with Routines", i.e., a server to host a database that includes information</i></p> |

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| | <p>includes information describing a set of static connections and information describing a set of adaptable nodes and that is further configured to run a scheduling service;</p> | <p>describing a set of static connections and information describing a set of adaptable nodes and that is further configured to run a scheduling service.</p> <p><https://developers.home.google.com/codelabs/smarthome-local#0> 2023-04-05</p> <p>Control and schedule multiple devices with Routines</p> <p>Create or customize a Routine to control multiple devices at once. Routines can start in these ways:</p> <ul style="list-style-type: none">• According to a schedule• With a voice command• With the Google Home app• When everyone's away or someone's home <p><https://support.google.com/googlenest/answer/7073578?hl=en> ©2023</p> <ul style="list-style-type: none">• server = Developer Cloud |
| 10.2 | <p>configuring a control client to control at least one output device within the environment and to communicate with the scheduling service;</p> | <p>Google Home describes "Thermostat" and "Control and schedule multiple devices with Routines", i.e., a control client to control at least one output device within the environment and to communicate with the scheduling service.</p> |

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| | | <div data-bbox="612 157 1611 1236"></div> <div data-bbox="612 1241 1611 1312"><p><https://play.google.com/store/apps/details?id=com.google.android.apps.chromecast.app> 2023-05-04</p></div> <div data-bbox="612 1352 1611 1392"><p><u>Control and schedule multiple devices with Routines</u></p></div> <div data-bbox="612 1407 1611 1470"><p>Create or customize a Routine to control multiple devices at once. Routines can start in these ways:</p></div> <div data-bbox="612 1493 1611 1642"><ul style="list-style-type: none">• According to a schedule• With a voice command• With the Google Home app• When everyone's away or someone's home</div> <div data-bbox="612 1656 1611 1690"><p><https://support.google.com/googlenest/answer/7073578?hl=en> ©2023</p></div> <div data-bbox="612 1728 1611 1801"><ul style="list-style-type: none">• server = Developer Cloud• control client = Google Home app</div> |
| 10.3 | configuring a control client web application | <p>Google Home describes "Google Home for web", "Nest web app", "Featured devices", "Lighting and plugs", "Climate and energy", "Security and awareness", "Entertainment" and "Appliances and more", i.e., a control client web application</p> |

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| | <p>including one or more components to render a user interface on the control client, wherein one or more standard widgets of the user interface provide one or more standard control options based at least in part on the at least one output device and one or more specialized widgets provide one or more customizable control options based at least in part on the at least one output device;</p> | <p><i>including one or more components to render a user interface on the control client, wherein one or more standard widgets of the user interface provide one or more standard control options based at least in part on the at least one output device and one or more specialized widgets provide one or more customizable control options based at least in part on the at least one output device.</i></p> <h2><u>Google Home for web and Nest web app</u></h2> <p>The web versions of the Home and Nest apps are optimized to take advantage of your personal computer's bigger screen and mouse. For example, you can edit automations with the script editor, view the live streams of multiple Nest cameras at once, or keep the live stream playing in the background while you work on other things.</p> <p><https://support.google.com/googlenest/answer/9241220?hl=en> ©2023</p>  <p><https://home.google.com/intl/en_ca/welcome/></p> <ul style="list-style-type: none"> • server = Developer Cloud • control client web application = Google Home for web, Nest web app |
| 10.4 | <p>configuring a control switch to communicate with the control client;</p> | <p><i>Google Home describes "select the home you wish to switch to", i.e., a control switch to communicate with the control client.</i></p> <h2>Nest web app</h2> <p>The Nest web app can control cameras and devices that were set up with the Nest app.</p> <p>A few advanced features of the Nest camera and doorbell, Nest Aware, and other Nest products and services are only available in the computer version of the app. Other features are disabled on the computer version for security reasons.</p> <hr/> <p>Change Settings ▼</p> <hr/> <p>Manage your account and check your messages ▼</p> <hr/> <p>Switch homes ▲</p> <hr/> <ol style="list-style-type: none"> 1. In the upper right corner of the home screen, click your home ▼. 2. On the menu that appears, <u>select the home you wish to switch to.</u> |

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| | | <p><https://support.google.com/googlenest/answer/9241220?hl=en> ©2023</p> |
| 10.5 | <p>configuring an output device configurator that is to send a request to access the output device to the scheduling service and through the control switch, to send configuration information to the output device, and to send control information to the output device; and</p> | <p>Google Home describes "Heating in 10 minutes", "Control and schedule multiple devices with Routines" and "According to a schedule", i.e., an output device configurator that is to send a request to access the output device to the scheduling service and through the control switch, to send configuration information to the output device, and to send control information to the output device.</p>  <p><https://play.google.com/store/apps/details?id=com.google.android.apps.chromecast.app> 2023-05-04</p> <p><u>Control and schedule multiple devices with Routines</u></p> <p>Create or customize a Routine to control multiple devices at once. Routines can start in these ways:</p> <ul style="list-style-type: none">• <u>According to a schedule</u>• With a voice command• With the Google Home app• When everyone's away or someone's home |

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| | | < https://support.google.com/googlenest/answer/7073578?hl=en > ©2023 |
| 10.6 | configuring the scheduling service to manage availability of the output device for access. | <p><i>Google Home describes "Control and schedule multiple devices with Routines" and "When everyone's away or someone's home", i.e., the scheduling service to manage availability of the output device for access.</i></p> <p><u>Control and schedule multiple devices with Routines</u></p> <p>Create or customize a Routine to control multiple devices at once. Routines can start in these ways:</p> <ul style="list-style-type: none">• According to a schedule• With a voice command• With the Google Home app• <u>When everyone's away or someone's home</u> <p><https://support.google.com/googlenest/answer/7073578?hl=en> ©2023</p> |